

Tests failed

1. HTTP Caching


Detects lack of caching information and possible improvements that could be worth considering for a faster rendering of the page.

Related

best

practice:

[\[CACHING\]](#) Provide caching information in HTTP responses.

-  **The document is served without caching information ("Expires" or "Cache-Control" header)**

Providing caching information helps mobile browsers reduce the number of network accesses, making it quicker and cheaper to load pages.

Caching information can be enabled either through a server configuration, or by the scripts that generate the content - see [Mark Nottingham's tutorial on caching](#)

2. Character encoding

Checks that the encoding of the page is correct and correctly defined.

Related

best

practices:


[\[CHARACTER_ENCODING_SUPPORT\]](#) Ensure that content is encoded using a character encoding that is known to be supported by the device.

[\[CHARACTER_ENCODING_USE\]](#) Indicate in the response the character encoding being used.

-  **The HTTP Content-Type header does not specify a character encoding and no UTF-8 encoding or a non-UTF-8 is specified in the XML declaration**

Setting the encoding in the XML declaration at the start of the document increases the chances that browsers will correctly detect the page encoding.

Learn more about [declaration of character encoding](#).

-  **The HTTP Content-Type header does not specify a character encoding but it specifies an Internet media type starting with "text/" and there is no meta element with http-equiv attribute that specifies UTF-8 character encoding**

On pages served as `text/html`, many browsers rely on the `<meta http-equiv>` tag to properly detect the page encoding.

Learn more about [declaration of character encoding](#).

3.



Valid content

Checks that the markup, the images, the CSS style sheets are syntactically correct and delivered with the appropriate content type.

Related

best

practices:

[\[CONTENT FORMAT SUPPORT\]](#) Send content in a format that is known to be supported by the device.

[\[VALID MARKUP\]](#) Create documents that validate to published formal grammars.

○



The document does not validate against XHTML Basic 1.1 or MP 1.2.

The document uses elements or structures that are not allowed in the XHTML Basic 1.1 specification, and thus are likely to be problematic for mobile browsers.

Check the page with the [W3C Markup Validator](#)

Line 20, Column 54 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute "selected" is not allowed for element type "ul".

Line 47, Column 54 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute value "12345" of type ID must be an NCName when namespaces are enabled.

Line 48, Column 39 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute "cellspacing" is not allowed for element type "table".

Line 124, Column 55 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute value "12346" of type ID must be an NCName when namespaces are enabled.

Line 125, Column 37 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute value "mytable" of type ID must be unique within the document.

Line 125, Column 37 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute "cellspacing" is not allowed for element type "table".

Line 201, Column 54 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute value "12347" of type ID must be an NCName when namespaces are enabled.

Line 202, Column 37 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute value "mytable" of type ID must be unique within the document.

Line 202, Column 37 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute "cellspacing" is not allowed for element type "table".

Line 278, Column 55 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute value "12348" of type ID must be an NCName when namespaces are enabled.

Line 279, Column 37 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute value "mytable" of type ID must be unique within the document.

Line 279, Column 37 in http://www.black-duck.de/NTIT/mitglieder/#_home — Attribute "cellspacing" is not allowed for element type "table".

Line 367, Column 61 in http://www.black-duck.de/NTIT/mitglieder/#_home — Element type "select" must be followed by either attribute specifications, ">" or ">".

○




The document is not served as "application/xhtml+xml"

The recommended media type for serving XHTML is `application/xhtml+xml`. More browsers are likely to support that media type, and optimize the rendering for it.

See [how to properly configure server mime types](#) and the [XHTML Media Types - Second Edition](#) W3C note.

Resource under test — served as `text/html`

-  **The document uses an XHTML doctype that is not a well-known mobile-friendly doctype (-//W3C//DTD XHTML 1.0 Strict//EN <http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd>)**

The document uses a doctype that is not recognized as a well-known XHTML mobile flavor. Switching to such a doctype may help finding problems with the markup of the page when using validating tools (such as the [W3C Markup Validator](#)).

Pick a [well-known XHTML mobile doctype](#).

4. **Page size**

Computes the overall size of the page, taking CSS style sheets and other embedded resources into account.

Related *best* *practice:*
[\[PAGE SIZE LIMIT\]](#) Ensure that the overall size of page is appropriate to the memory limitations of the device.

-  **The size of the document's markup (15125 bytes) exceeds 10 kilobytes**

Mobile devices have limited screens. Long pages on small screens are confusing, because users can't see the *big picture* and feel lost. Some mobile devices with limited memory still can't handle pages that are more than a few Kb but, in essence, the 10Kb limit was set for **usability** reasons. Some screens may be big enough to display pages with more content. The 10Kb limit ensures that the page is still usable on devices with small screens.

Focus on the piece of information that you want to deliver, and build the page around it.

5. **Tables for layout**

Attempts to detect the incorrect use of tables to control the layout of the page.

Related *best* *practice:*
[\[TABLES LAYOUT\]](#) Do not use tables for layout.

-  **Table contains less than two td elements**

A table with only one column is either the sign that the table is used:

- to represent a list of items
- to control the relative position of various sections of the page

Both uses imply a layout based on tables. While most mobile devices support basic tables, they are rendered quite differently by different mobile browsers, and cannot be reliably used for layout.

The `table` element should only be used - with care - to represent tabular data.

Use CSS techniques to control the layout of the page. See [a tutorial on table-less layout](#).

```
... <table cellpadding="0" id="mytable"><tr><th abbr="Benutzerdaten"
class="nobg" scope="col">Benutzerdaten</th><th abbr="" class="nobg"
scope="col"/></tr><tr><th abbr="Name" class="specalt"
scope="row">Name</th><td class="alt">I.P. Skew</td></tr><tr><th
abbr="Fachbereich" class="specalt" scope="row">Fachbereich</th><td
class="alt">Stains on the wall</td></tr><tr><th abbr="" class="nobg"
scope="col"/><th abbr="" class="nobg" scope="col"/></tr><tr><th
abbr="Aktivität" class="nobg" scope="col">Aktivität</th><th abbr=""
class="nobg" scope="col"/></tr><tr><th abbr="Model" class="specalt"
scope="row">Mitglied seit</th><td class="alt">14.10.2008</td></tr><tr><th
```

[illegible]

```

abbr="Fachbereich" class="specalt" scope="row">Fachbereich</th><td
class="alt">What's that smell?</td></tr><tr><th abbr="" class="nobg"
scope="col"/><th abbr="" class="nobg" scope="col"/></tr><tr><th
abbr="Aktivität" class="nobg" scope="col">Aktivität</th><th abbr=""
class="nobg" scope="col"/></tr><tr><th abbr="Model" class="specalt"
scope="row">Mitglied seit</th><td class="alt">14.10.2008</td></tr><tr><th
abbr="Model" class="specalt" scope="row">Letzter Login</th><td
class="alt">14.10.2008</td></tr><tr><th abbr="Model" class="specalt"
scope="row">Indikator</th><td class="alt">96 von 20732
(0.46%)</td></tr><tr><th abbr="Online" class="specalt"
scope="row">Online:</th><td class="alt">Nein</td></tr><tr><th abbr=""
class="nobg" scope="col"/><th abbr="" class="nobg"
scope="col"/></tr><tr><th abbr="Kontaktdaten" class="nobg"
scope="col">Kontaktdaten</th><th abbr="" class="nobg"
scope="col"/></tr><tr><th abbr="email" class="specalt" scope="row">e-
Mail:</th><td class="alt">bla@bla.com</td></tr><tr><th abbr="Model"
class="specalt" scope="row">Telefon</th><td class="alt">0190 / 666
666</td></tr><tr><th abbr="" class="nobg" scope="col"/><th abbr=""
class="nobg" scope="col"/></tr><tr><th abbr="Aktivität" class="nobg"
scope="col">Kurse</th><th abbr="Mitglied seit" class="spec"
scope="col">Mitglied seit</th></tr><tr><th abbr="OOP" class="specalt"
scope="row">Objektorientierte Programmierung</th><td
class="alt">14.10.2008</td></tr><tr><th abbr="DRS" class="specalt"
scope="row">Dummrumsitzen</th><td class="alt">17.10.2008</td></tr><tr><th
abbr="BZVSG" class="specalt" scope="row">Blödes Zeug von sich
geben</th><td class="alt">17.10.2008</td></tr></table>

```

Tests passed with warnings

Some of the following tests raised one or more [warnings](#).

You may want to consider if these warnings can help improve the page even further.

1. Use of the "inputmode" attribute

Checks the use of the `inputmode` attribute in `input` and `textarea` fields.

Related

best

practice:

[\[DEFAULT INPUT MODE\]](#) Specify a default text entry mode, language and/or input format, if the device is known to support it.

○ The inputmode attribute of this textarea element is invalid.

If the expected text entry uses a well-defined subset of characters (e.g. numbers), identifying that set using the `inputmode` attribute of the `input` element can help mobile browsers use the most adapted input mode on the device (e.g. numeric keyboard vs alphabetic).

Add an `inputmode` attribute to the `input` element, with one of the [well-known inputmode values](#).

```
... <input name="members" type="text"/>
```

2. Objects and Scripts

Alerts on the use of scripting and on erroneous definitions of objects.

Related

best

practice:

[\[OBJECTS OR SCRIPT\]](#) Do not rely on embedded objects or script.

○ The document uses scripting

Scripting can be used, but shouldn't be relied upon, since many mobile devices do not support or hardly support scripting. The page should still be usable when scripting is not enabled.

Use scripting to enhance your page, but *degrade gracefully* when scripting is not supported.

```
... <script src="js/members.js" type="application/x-javascript"/>
```

○ An element uses an event attribute

Using event attributes means that scripts and content are mixed in the page.

[Register the events listeners](#) in the script, separated from the content of the page.

```
... <select class="tbselect" name="maxRows"
onchange="$('memberlistForm').submit();"><!-- ...skipped by mobileOK
checker... ---></select>
... <select class="tbselect" name="department"
onchange="$('memberlistForm').submit();"><!-- ...skipped by mobileOK
checker... ---></select>
... <select class="tbselect" name="course"
onchange="$('memberlistForm').submit();"><!-- ...skipped by mobileOK
checker... ---></select>
```

3. Use of style sheets


Checks that styles are used in lieu of elements that impact the layout of the page, and that styles are correctly defined.

Related

best

practice:

[\[STYLE SHEETS USE\]](#) Use style sheets to control layout and presentation, unless the device is known not to support them.

-  **All styles are restricted to CSS media types other than "handheld" or "all"**

All the styles defined in the page or in an external style sheets apply to CSS media types that are not applied by some mobile devices, and would thus get an unstyled page.

Consider adding style sheets for mobile devices with a CSS media type of `handheld` or `all`.

4. Tables alternatives

Related

best

practice:

[\[TABLES ALTERNATIVES\]](#) Where possible, use an alternative to tabular presentation.

-  **A Table element exists**

Most mobile devices support basic tables. Use tables with care. In particular, if the width of the table is likely to be larger than the width of the mobile device's screen, the result may not be usable for users: rows may be wrapped on multiple lines with no clear way to distinguish between rows and continuation of rows, or the browser may zoom out so that users see the whole table, resulting in words written in too tiny characters to be read.

Using tables to control the layout of the page rather than to display tabular data is a *bad practice* in all cases (mobile or not). Mobile browsers in particular are unlikely to render them as they would be on a big screen.

Consider converting tables to a linear layout, e.g. using definition lists (`dl`, `dt` and `dd` elements).

Instead of a table-based layout, use CSS techniques instead. See [a tutorial on table-less layout](#).

```
... <table cellpadding="0" id="mytable"><tr><th abbr="Benutzerdaten"
class="nobg" scope="col"><!-- ...skipped by mobileOK checker... -->
</th><th abbr="" class="nobg" scope="col"/></tr><tr><th abbr="Name"
class="specalt" scope="row"><!-- ...skipped by mobileOK checker... -->
</th><td class="alt"><!-- ...skipped by mobileOK checker... -->
</td></tr><tr><th abbr="Fachbereich" class="specalt" scope="row"><!--
...skipped by mobileOK checker... --></th><td class="alt"><!-- ...skipped
by mobileOK checker... --></td></tr><tr><th abbr="" class="nobg"
scope="col"/><th abbr="" class="nobg" scope="col"/></tr><tr><th
abbr="Aktivität" class="nobg" scope="col"><!-- ...skipped by mobileOK
checker... --></th><th abbr="" class="nobg" scope="col"/></tr><tr><th
abbr="Model" class="specalt" scope="row"><!-- ...skipped by mobileOK
checker... --></th><td class="alt"><!-- ...skipped by mobileOK checker...
--></td></tr><tr><th abbr="Model" class="specalt" scope="row"><!--
...skipped by mobileOK checker... --></th><td class="alt"><!-- ...skipped
by mobileOK checker... --></td></tr><tr><th abbr="Model" class="specalt"
scope="row"><!-- ...skipped by mobileOK checker... --></th><td
class="alt"><!-- ...skipped by mobileOK checker... --></td></tr><tr><th
abbr="Online" class="specalt" scope="row"><!-- ...skipped by mobileOK
checker... --></th><td class="alt"><!-- ...skipped by mobileOK checker...
--></td></tr><tr><th abbr="" class="nobg" scope="col"/><th abbr=""
class="nobg" scope="col"/></tr><tr><th abbr="Kontaktaten" class="nobg"
scope="col"><!-- ...skipped by mobileOK checker... --></th><th abbr=""
class="nobg" scope="col"/></tr><tr><th abbr="email" class="specalt"
scope="row"><!-- ...skipped by mobileOK checker... --></th><td
class="alt"><!-- ...skipped by mobileOK checker... --></td></tr><tr><th
abbr="Model" class="specalt" scope="row"><!-- ...skipped by mobileOK
```

[illegible]


```

abbr="Mitglied seit" class="spec" scope="col"><!-- ...skipped by mobileOK
checker... ---></th></tr><tr><th abbr="OOP" class="specalt"
scope="row"><!-- ...skipped by mobileOK checker... ---></th><td
class="alt"><!-- ...skipped by mobileOK checker... ---></td></tr><tr><th
abbr="DRS" class="specalt" scope="row"><!-- ...skipped by mobileOK
checker... ---></th><td class="alt"><!-- ...skipped by mobileOK checker...
---></td></tr><tr><th abbr="BZVSG" class="specalt" scope="row"><!--
...skipped by mobileOK checker... ---></th><td class="alt"><!-- ...skipped
by mobileOK checker... ---></td></tr></table>
... <table cellpadding="0" id="mytable"><tr><th abbr="Benutzerdaten"
class="nobg" scope="col"><!-- ...skipped by mobileOK checker... ---
></th><th abbr="" class="nobg" scope="col"/></tr><tr><th abbr="Name"
class="specalt" scope="row"><!-- ...skipped by mobileOK checker... ---
></th><td class="alt"><!-- ...skipped by mobileOK checker... ---
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...skipped by mobileOK checker... ---></th><td class="alt"><!-- ...skipped
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scope="col"/><th abbr="" class="nobg" scope="col"/></tr><tr><th
abbr="Aktivität" class="nobg" scope="col"><!-- ...skipped by mobileOK
checker... ---></th><tr><th abbr="" class="nobg" scope="col"/></tr><tr><th
abbr="Model" class="specalt" scope="row"><!-- ...skipped by mobileOK
checker... ---></th><td class="alt"><!-- ...skipped by mobileOK checker...
---></td></tr><tr><th abbr="Model" class="specalt" scope="row"><!--
...skipped by mobileOK checker... ---></th><td class="alt"><!-- ...skipped
by mobileOK checker... ---></td></tr><tr><th abbr="Model" class="specalt"
scope="row"><!-- ...skipped by mobileOK checker... ---></th><td
class="alt"><!-- ...skipped by mobileOK checker... ---></td></tr><tr><th
abbr="Online" class="specalt" scope="row"><!-- ...skipped by mobileOK
checker... ---></th><td class="alt"><!-- ...skipped by mobileOK checker...
---></td></tr><tr><th abbr="" class="nobg" scope="col"/><th abbr=""
class="nobg" scope="col"/></tr><tr><th abbr="Kontaktdaten" class="nobg"
scope="col"><!-- ...skipped by mobileOK checker... ---></th><th abbr=""
class="nobg" scope="col"/></tr><tr><th abbr="email" class="specalt"
scope="row"><!-- ...skipped by mobileOK checker... ---></th><td
class="alt"><!-- ...skipped by mobileOK checker... ---></td></tr><tr><th
abbr="Model" class="specalt" scope="row"><!-- ...skipped by mobileOK
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---></td></tr><tr><th abbr="" class="nobg" scope="col"/><th abbr=""
class="nobg" scope="col"/></tr><tr><th abbr="Aktivität" class="nobg"
scope="col"><!-- ...skipped by mobileOK checker... ---></th><th
abbr="Mitglied seit" class="spec" scope="col"><!-- ...skipped by mobileOK
checker... ---></th></tr><tr><th abbr="OOP" class="specalt"
scope="row"><!-- ...skipped by mobileOK checker... ---></th><td
class="alt"><!-- ...skipped by mobileOK checker... ---></td></tr><tr><th
abbr="DRS" class="specalt" scope="row"><!-- ...skipped by mobileOK
checker... ---></th><td class="alt"><!-- ...skipped by mobileOK checker...
---></td></tr><tr><th abbr="BZVSG" class="specalt" scope="row"><!--
...skipped by mobileOK checker... ---></th><td class="alt"><!-- ...skipped
by mobileOK checker... ---></td></tr></table>

```

5. Errors in HTTP response(s)

Checks that the resource under test, embedded resources, and linked resources may be retrieved. Even when HTTP errors occur, the checker tries to run as many tests as possible on the page, but note that the results in that case may not be correct (e.g. the total page size cannot be properly computed).

○ HTTP status code 404 (Not Found) or 5xx (Server Error) received for a linked resource



Clicking on a broken link results in an extremely poor user experience. Besides, error messages returned by mobile browsers on broken links are sometimes hard to understand.

Check and fix the following link(s).

Resource <http://www.black-duck.de/NTIT/mitglieder/search.php>

Links review

Some of the links on the page point to resources that may not work adequately on a mobile device:

-  Internal links to invalid anchors:
 - fragment ""
-  Links to resources of which the declared character encoding is not UTF-8:
 - <http://www.black-duck.de/NTIT/mitglieder/#> — served without a declared encoding
 - <http://www.black-duck.de/NTIT/mitglieder/#12345> — served without a declared encoding
 - <http://www.black-duck.de/NTIT/mitglieder/#12346> — served without a declared encoding
 - <http://www.black-duck.de/NTIT/mitglieder/#12347> — served without a declared encoding
 - <http://www.black-duck.de/NTIT/mitglieder/#12348> — served without a declared encoding
 - <http://www.black-duck.de/NTIT/mitglieder/#allmembers> — served without a declared encoding
 - <http://www.black-duck.de/NTIT/mitglieder/#buddies> — served without a declared encoding
 - <http://www.black-duck.de/NTIT/mitglieder/#searchForm> — served without a declared encoding
 - <http://www.black-duck.de/NTIT/mitglieder/search.php> — served without a declared encoding